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- c. The main repair shop for Southwestern Hungary in 1945 was located at Szekesfehervar. It could handle general repair on any of the Hungarian rolling stock.
- d. By 1945 Szekesfehervar had become the major railway junction for Southwest Hungary. Three important railway lines carried the traffic through Szekesfehervar. These wars as follows
 - (1) A main line from Szekssi-har ar to Budapest via Martonvasar. The rails were for heavy duty and were laid specifically for fast trains.
 - (2) A line for light rolling stock was laid to sudapest via Bicske.
 - (3) The third line served Komarom, Gyor and Kisber.
 - (4) A less important line linked Veszprem and Siefek.
- e. Incidentally a small plant which produced acetylene gas was located on one of the rail sidings one half kilometer from the repair shop. The Hungarian State Railway utilized the acetylene gas for lighting purposes. In order to provide light for passenger and pullman cars, tanks were mounted under the bodies of such care. The tanks were of three sizes three, five and fifteen cubic meters. I have mentioned this plant because I know that it didn't suffer from bombings during World War II. The Hungarian State Railway has since 1940 converted from acetylene to butane, but in 1945 a number of the passenger cars were still using acetylene for lighting purposes.
- f. It must be remembered that the Szekesfehervar railroad facilities are particularly important to Southwest Hungary, for this junction, in addition to providing an addit from Western Europe by rail, also serves as a mershalling area for the agricultural produce and livestock of Southwest Hungary.

2. Istvantelki Fomuhely

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- a. Istvantelki Formhely was in 1945 the largest repair shop in operation by the Hungarian State Railway. It is located on the outskirts of Budapest between the capitol city and the large suburb. Uipest.
- and 1943. The shops were well equipped with furnaces, steam, electric and hydraulic hammers and tools. It was considered the best equipped railroad repair works in all of Hungary. In addition to actual repair and construction of new equipment we carried on constant research and development projects in all phases of railroad equipment and operations.
- d. Prior to World War II the personnel was appreximately 9300 but was expanded to 4500 during the way. These figures are representative of the administration, the repair and saintenance people who worked at these repair shops.
- With reference to new construction we averaged three new passenger cars per month.
- f. In rebuilding rolling stock, we were able to do 85 to 90% of the necessary work. This was the usual amount of repair, that is to say, the rolling stock was almost worthless when we received it. As I recall, we rebuilt from 125 to 130 freight cars pur month.
- g. Fractically all repair necessary on railway all tankers was effected at Istrantelki Fomuhely. Further, most railway tank cars were built at this installation. We had all the required tooling for tank car construction, steel rolls, welding equipment, riveting machines and presses. All replacement parts for tank cars were stored at Istvantelki Fomuhely and shipped to inther importance and repair shops when wequested by them.
- other junctions and repair shops when requested by them.

 h. Istrantalki Fomuhaly didn't produce new locomotives but did do repair work or modify them whenever alteration or change was directed by the State Railway.
- modify them whenever alteration or change was directed by the State Railway.

 1. We built oil tank cars in three sizes, 10 tons, 15 tons and 20 tons. In

 1943
 30-ton tankers.
- j. I stated that these shops were the largest in Hungary. They covered an area about five kilometers long and approximately two and one-half kilometers wide. The main building was a two-story affair with steel framing and brick walls. Actually all of the buildings had steel framing. During World War II the Allies bombed Istvantelki Fomuhely. About 50% of the appurtenances were destroyed, but I recall that the steel framing of the buildings remained erect.
 - (1) The machine shop; perhaps the most important section of Istvantalki Foundaly, was untouched. I recall, however, that USSM mortars did make hits in two or three spots but did relatively minor and inconsequential damage.

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(2) The passenger and freight car repair section was demolished, to the extent of approximately 90%.

Approximately 50% of the locomotive repair section was destroyed.

(4) When the forces of the USSR took over the Budapest area they gave priority to the repair of Istvantelki Fommhely. in Hungary in 1947 that repair effected by the Soviets, who utilised Hungarian personnel, had returned the installations to an almost normal capacity (I cannot say, however, that the repair was 100% completed).

k. The repair shop had one incoming track and one out going track. The incoming track branched out into five main arteries plus a sixth artery used exclusively for passenger car repair. There was a total of 40 separate tracks inside

- these repair shops.

 1. The importance of Istvantelki Fomuhely can best be expressed as fellows: if it wars not functioning, 60% of the relling stock of all Hungary would suffer for this is the only shop in Hangery which can effect major repairs on locomotives and rolling stock ever 15 tens in weight. Heavy lift equipment consists of a 60-ton electric lift which was used for elevating locomotives, and a 35-ton electric lift (we reinforced this lift so that 40 tons rould be elevated) which was used in the passenger and freight car section of Istvantalki Fomuhely.
- m. Near Istvantelki Fomuhely is located one of the only two cayger plants in Hungary. The output of this plant in 1945 was, 30 cubic meters per hour. The plant was operated by eight men who were employees of the Hungarian State Railway. The oxygen derived from the installation was used primarily by the railways and the army. I know for certain that 30% of all oxygen produced to Hungary came from this source. Source states that the oxygen plant was intact and in no way demaged during World War II. Incidentally, 50% of all oxygen consumed by Hungarian industry was purchased in Vienna, Austria up to 1945. I can recall that we received occasional shipments from Vienna.
- 3. Ferenc Varos: The Northern repair shop (Rezaki Fomuhely).

a. There was a large repair shep at Ferenc-Varos, also near Budapest. In fact

it was the third largest in Hungary.

b. This installation had the facilities to repair one particular type of steam driven locomotive, all types of electrically driven locomotives, freight cars and tankers. (Incidentally this was the only repair shop in Hangary specifically equipped to repair electric lecomotives.)

In car repair, Esski Foundaly consistently turned out more repaired freight

cars per month than any other shop.

4. Sacmbethely

The repair shops at Szombathely are about the same size as those at Sackesfehervar.

The repair facilities were designed for smaller ralling stock such as the small Hungarian locomotives and freight and passenger cars with less than 15 ton eanenity.

The permans, who considered Sagmontmenty. to their military program, took over control and administration of this center.

5. Debreçens

- The second largest railroad junction and railway center in Hungary is located at Dahrecen.
- The number of workers at the repair shop during World War II was approximately one thousand (complement now unknown to source)

The repair shop is located at the edge of the city in the Southeastern

sector. This shop is about four kilemeters square. The source incoming track and one outgoing track. Inside the shop the total amount of tracks with all arteries is 24.

The work at the Debrecen shops is essentially concentrated in repair of

rolling stock and body construction. The bedies manufactured are of two categories ; both passenger car and freight car bodies are turned out.

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g. Although Debracen was well equipped with tools, it couldn't be compared to the shops at Istwantelki Fomnhely. h. I might mention the general organization of the shop at Debrecen for it is representative of all the larger shops in Hungary. The Administration Deperments The bief of this department was Gyula Komaras, who is now declared. From what I have heard Genessy Sandor now (September 1953) Chis: Administrator of the shops.

(a) Genessy Sandor should be about 55 years of age. He is a graduate of Joseph University, Budapest. I believe the year of graduation was about 1,26. Sandor is a good railway technician, is bright and exercises good judgment. He has a strong forceful personality. He is married and has a grown daughter. Chief of the passenger and freight car section. As I recollect, when the USSR forces entered Debrecen. Sandor left for some unknown

destination. in 1945 that Sander returned to bemeden seven of eight months later.

I cannot believe that he has fully accepted the Communist Party line but that in all probability he has gone along with the Communists as a matter of expediency, He dose possess a cretain leverness which should invite caution when dealing with him.

The Chief is responsible for repair construction and maintenance as well as research and design. He is also in charge of the other departments.

(2) The Auditing and Accounting Department:

(a) This department handles the personnel records which includes salaries

(b) All auditing for the shops is handled in this section. (3) Machinery Department: The top man in this department, of course, is a qualified engineer.

(4) Locomotive Repairs This department in 1947 was supervised by Benedek Sandor. (I know that he is no longer there but don't know his present whereabouts.) He is probably 57 years of age now (September 1953). Although he has a fair technical background, Benedek is a rather superficial personality. ficial personality. he had many political affiliations which he always relied upon. Benedek, prior to USSR occupation, was a member of the Hungarian Peasant Party.

The Repair Shop for Passenger and Freight Cars. By 1945 a sixth department was added. It was referred to as the main-tenance department (I cannot describe its function)

The suop at peorecen was able to rebuild five large passenger cars or 10 small passenger cars per month.

The repair of passenger cars amounted to 25 per month.
From 15 to 20 freight cars were rebuilt per month and from 100 to 110 freight cars were remained during the same period.

The freight car bodies built at Debrecen were of three sixes:

The capacity of the smallest was 10 tons. (2) 15-ton freight cars. (Most of the freight cars utilised on Hungarian railways averaged 15 tons.)

(3) The largest freight same up to 1945 were of 20-ton canacity.

Consequently that same year we came out with a 25-ton sies. Production in large volume of the 25-ton size cldn't get underway until 1949.

During World War II tanker repair got underway. From three to four tenkers per month were repaired. Tank repair facilities and equipment were excellent. We could repair the tank shells and as I recall our pressure equipment utilised in testing tanks was very good.

Petrecen also possessed familities for repairing the trucks of rolling stock. This repair included work on the axles, springs, bearings and wheels.

p. The shops at Debracen suffered critical damage from USSR assault and Allied bombings. By 1949, however, they were operating at 1005 capacity and efficiency. (The functions of this shop were impeded about 67% by the World War II damage.)

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q. Some of the finer precision tools for Hungarian railway work were located at Debreuth. There was one machine in particular which I feel is worthy of mention. It is a machine turnet affair which contains a large press and a machine lathe. It could press the cuter flanges of wheels for locometives. This press could, of course, press up to 1.8 meters in diameter with precision. It was calibrated to a precision of 1/1000 of an/mm(I don't know the English mans for this machine but recall that in Hungarian we called it a merry-g-round lathe and press).

II. Railroads and Double-Track Roadbeds

There were very few double-track readbeds in Hungary in 1945. I can, however, recall and describe the following ones:

- a. Vienna-Gyor-Budapest was double tracked the entire distance between the above junctions. This readway and readbed were in excellent condition. Heavy ity rails had been laid for high speed. Incidentally this was the only callway line in all Hungary which was electrified the entire distance.

 Locorotives were permitted to travel over it at 120 kms per hour 175 mph/am are remaited to pull freight cars with a maximum load weight of 40 cans per car. The line was used by both passenger and freight trains. Since this line was one of the busiest in the entire country, all operations in signaling were electrically devised and controlled. We utilized a block system which operated at maximum intervals of seven minutes 15.6. Electricity utilized along this railway was 50 cycles so that any of the Hungarian power stations were able to feed into the Hungarian Railway power lines through transformers. Electrification of the Vienna-Gyor-Budapest line began in 1935 and was completed in 1937.
- b. The rem Budapest to Hatvan is double tracked the entire distance. Top speed over this line in 1945 was 80 kms per hour 50 mph. Loads of maximum weights were hauled over this readbed for it was in excellent condition. From Hatvan to Miskole there was only single tracking in 1945. But from Miskole to Kassa 10 double track had been laid for the entire distance.
- The line from Hatvan to Kassa was badly damaged by bombing during world war II. However, the Soviets rebuilt the entire line from Rudapest to Hatvan to Miskolc to Nyirogyhasa to Ungvar[5:6]. The line is now double tracked between all of the above points. It is not electrified, however, being constructed for only a steam powered locamotives. Work was completed on this line by the USSR in 1948.
- d. Budapest-Cegled-Ssolnok. This railway line was badly damaged during World War II, particularly around Ssolnok. It was fully repaired by 1948 and was in good condition only steem driven locomotives operate on the above lines which are double tracked along the entire route.
- which are double tracked along the entire route.

 e. There is double track from Miskole to Banoc /sic/ only steam driven locomotives used. They cannot travel over 60 kms per hour because the gradients are steep and curves not properly banked. Locomotives attempting speeds in excess of 60 kms per hour /37s mph/ overturned a number of times.

 f. Budapest-Ujszasz-Szdinok. This ratiroed is double track, but actually it
- f. Budanest Ujszasz-Szchnok. This railroad is double track, but actually it never been in good condition for it has served primarily as a secondary or branch line. It is used chiefly for the hauling of sugar beets.
- g. Incidentally, if my memory doesn't fail me, all of the railway lines in hungary were standard gauge, that is four feet nine inches wide 21945/.

III. Manufacture of Locomotives

- a. The Hungarian State Locomotive Factory located at Budapest on Soroisari ut and Koba i ut is devised for the construction of steam-driven locomotives. It was equipped to produce two types of locomotives:
 - (1) Type 328 was designed for high speed. This locomotive could draw 32 axles at 85 kms per hour _53 mph/. It was used for both freight up passenger hauling with emphasis upon the latter. In passenger work the 328 was not permitted to exceed the maximum of 95 kms per hour _60 mph . _Source unable to speak adequate English, could not make clear whether he meant 16 cars or 32 cars when he used the expression "32 axles".
 - (2) Type '24 designed for heavy loads. It could draw 52 axles at 75 kms per hear 247 mph.
 - (3) This shop also turned out another engine the 324. This locomotive could draw 60 axles at 50 kms per hour (31 mph).

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- b. Electric Locometives We had in operation only one type of electric locometive. It was named, after its inventor, Kando Kalman. The plant which produced the Kando Kalman was located at Ganz in the suburbs of Budapest. The Kando Kalman electric locometive was produced in two serial sequences: one engine was designed for high speed and light hauling. The ether was manufactured for the speed and heavy hauling. The faster locometive's top speed was 10 kms per hour 162 mph/. The slower locometive's tap speed was 75 kms per hour 167 mph/.
- IV. Pullman Cars (Sleeping Cars)
- a. Pullman cars could be drawn ever any of the aforementioned double-track lines without any alteration of tracks or wheels. I can recall, however, that in 1945 the lines between Debrecen and Fuzesabony were considered unsafe with reference to use of pullman cars. The locomotive had to reduce its speed to 10 kms /five and one-half mph/ because of the extremaly sharp curves. The radius of these curves at a number of points was less than 200 meters. Incidentally, a minimum // 200 meters radius is required as suitable for the use of the Hungarian pullman cars, in negotiating curves with safety.

b. Pullman cars cannot be drawn over theorails south of Egyek /sic-Egyek? /. The curves in this area are far too storp.

V. Marshalling Yards - The following focal points can be considered marshalling yards for they each possess large railway sidings, storage facilities and personnel who can transfer loads from one train to another. These points are Szek [sic], Hatvan, Szelnek, Debracen, Bakascsaba, Szeged, Pecs, Dembovar, Koposvar [sic], Vesprem, Gyor and Komarom.

VI. Available Rolling Stock, 1945 or later

a. In 1945 there were 28 electric-driven locomotives in Hungary. That same year /1945/ the Hungarian State Railway laid plans for the construction of 12 more. I learned later that six of the projected 12 had been constructed. (I learned in 1950) that the above had taken plane.)

of the 338 series or type.

c. There were about 18 steam driven locemetives of the 224 series. When Fleft in 1945, 14 more 424s were under various phases of construction and were being built solely for export to the USSR. (I can add nothing to the above information.)

d. Totaling the various sises of freight cars in actual operational condition in 19/ I would say that there were about 40,400.

e. With aference to railway tank cars a safe estimate would be somewhere between 400 to 450.

VII. Signals and Switches

- e. There is autimate signaling equipment between the major western junctions. I can recall definitely that is 1945 electrical equipment was used between (1) Gyer and Komeron.
 - (2) Budspes and Smekesfehenvar.

 The Hungarian railway officials were very well pleased with the parformance of the electric equipment and controls used at the above points. The system itself was neb an Hungarian innovation but was purchased from Germany. This was the popular Siemens-Helske system.

b. Caly medianical signaling apperatus was utilized elsewhere in Hungary.
c. Switches are manually operated. Each of the switches is looked and scaled. Should it be necessary for a trainmen to break one of these scale, according to Hungarian law, he must write an official letter explaining why the scale had to be broken. Scale for these switches are in the possession of station masters who are the only ones permitted to either possess the scale or to replace them whenever they have been broken.

d. Dispatchers of the junctions maintain contact with each other by telephone.
Between Badapest, Ball Pu Palya /sig/and Udvar, and between the towns of Budapest,
Nagykaniasa and Kessthely telephonic communications are so devised, automatically, that all station telephones are immediately out in. Each railway
point along the entire route can hear the conversation which transpires
among any of the station masters who originate (Tile.)

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A separate sutematic telephone system was utilized by the Hungarian State Railway. It was in operation in 1945. This system was entirely divorced from the commercial facilities of the state communications system. The control for this system was located at Budapest from which point underground cable was laid in all directions to the larger cities in Hungary. It was, of course, owned and used evaluately by the Hungarian State Railwayn. I can recall that during World be II when Soviet troops surrounded Rudapest

The Boviet troops had cut all lines of communications around Budapest but apparently they were not aware that the above telephonic equipment existed. Subsequently the major cities such as Debrecen, Szombathely and others were able to converse with Budapest for approximately two months before they were detected by the Soviets.

f. The standard operating procedure regarding station to station contact in Eastern Hungary was by telephone. Each of the major stations had its own switchboard. The major stations with switchboards served as relay stations for the smaller junctions. Thus, if a miner railway polar wished to make telephonic contact with any print, its calls had to be relayed through the major railway station mearest it.

VIII. Status and Condition of Hungarian Rolling Stock

a. I can recall that

To remove from operation approximately five per cont of the rolling stock

for unexpected repairs each month.

b. For anticipated and planned repair we removed from operation anywhere from 25 to 30% per menth. According to source, the figures in a. and b are representative of all types such as freight cars, passenger and pullman cars, locomotives and tankers/

Even before World War II began Hungary was in need of rolling stock,

there was a constant shortage.

d.

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To operate effectively and be considered in good shape the Hungarian railways need a minimum of 50 thousand freight care above 15-ten capacity per car and at least 10 theusand passenger cars. I might add that shortage of locametives was constant.

The initials MAV appear on all Hungarian rolling stock. This is the Hungarian abbreviation for "Hungarian State Railway"_/

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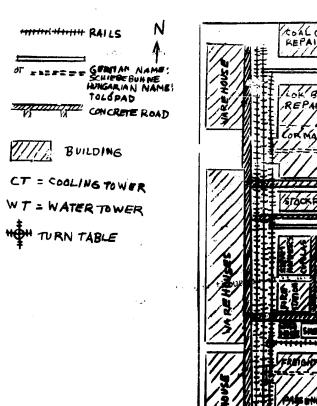
- ENCLOSURE (A): Detailed Drawing Frepared by Source of Mav Istvantelki Fommhely Showing Location of Repair Shops, Rail Sidings, Power House, Passenger and Freight Car Section, Machine . Shops, etc.
 - (B): Detailed Drawing Prepared by Source of Szekesfehervar Mav Mahely Showing Location of Repair Shops, Rail Sidings, Power House, Passenger and Freight Car Section, Mashine Shops, etc.
 - (C): Detailed Drawing Prepared by Source of Debrecen May Muhely Showing Location of Repair Shops, Rail Sidings, Power House, Passenger and Freight Car Section, Machine Shops, etc.

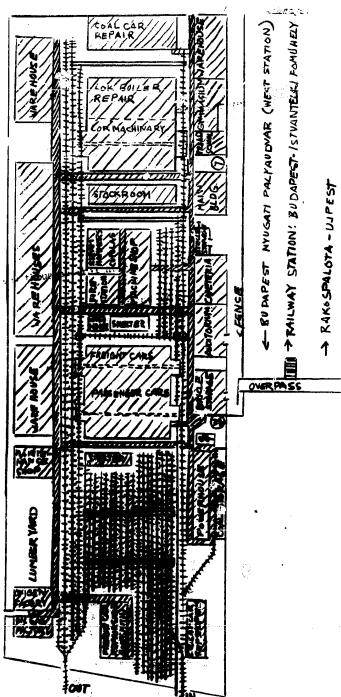
TENESTAL DOLLOGE TO TELLIS OF PHERODOLE 755.34 755,211 2246.311 37H 155.42 755.321 37 M 755.322 31H 755, OLZ. 371 755.31 37M

ENCLOSURE (A)

SECRET/SECURITY INFORMATION

DETAILED DRAWING PREPARED BY SOURCE OF MAY ISTVANTELRI FOMUHELY SHOWING LOCATION OF REPAIR SHOPS, RAIL SIDINGS, POWER HOUSE, PASSENGER AND FREIGHT CAR SECTION, MACHINE SHOPS, FITC





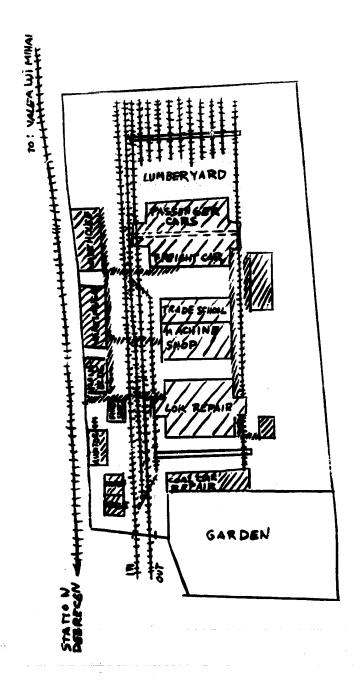
SECRET/SECURITY INFORMATION

INCLOSURE (B)

SECRET/SECURITY INFORMATION

DETAILED DRAWING FREPARED BY SOURCE OF SZENESFEHERVAR MAY MUHELY SHOWING LOCATION OF REPAIR SHOPS, RAIL SIDINGS, POWER HOUSE, FASSENGER AND FREIGHT CAR SECTION, MACHINE SHOPS ETC.





SECRET/SECURITY INFORMATION

SECRET/SECURITY INFORMATION

MCLOSURE (C)

DETAILED DRAWING PERPARED BY SOURCE OF DEBRECEN MAY MUHELY (APPROXIMATELY) STATION SERESFEHERVAR OVERPASS

SECRET/SECURITY INFORMATION